

## **ABSTRACT**

A tissue processing system includes a tissue processor for processing tissue using reagent fluids, a fluid container and a coupler providing bi-direction fluid communication between the tissue processor and the fluid container. The coupler includes first and second cylindrical rings separated  
5 by a wall and a fluid conduit disposed within the first and second cylindrical rings that pass through the wall, thereby providing fluid communication from the fluid container to the tissue processor. Fluid is returned from the tissue processor to the fluid container via at least one fluid return aperture in the wall that separates the first and second cylindrical rings.